



Europäisches  
Patentamt  
European  
Patent Office  
Office européen  
des brevets

## SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:  
EP 17 82 47 22

### Classification of the application (IPC):

*B05D 5/00, B23B 5/16, G08B 23/00, G09F 13/04, G09F 13/16, G09F 13/18,  
G09G 5/00, G09F 23/00, G09F 27/00, G09F 9/35*

### Technical fields searched (IPC):

G09F

DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
X	EP 3023975 A1 (SAMSUNG ELECTRONICS CO LTD [KR])	1-3, 5-12
Y	25 May 2016 (2016-05-25) * paragraphs [0001], [0021], [0022], [0028] - [0038], [0040], [0042], [0049], [0054] * * figures 1-12 *	4
X	KR 20130003384 A (DLS CO LTD [KR]) 09 January 2013 (2013-01-09) * abstract; figures 1-6b *	1-3, 5-8
Y	GB 2232520 A (BLAKECARE LIMITED [GB]) 12 December 1990 (1990-12-12) * page 1, lines 3-6 * * page 6, lines 6-30 * * figures 1-5 *	4

The supplementary search report has been based on the last set of claims valid and available at the start of the search.

Place of search The Hague	Date of completion of the search 17 December 2019	Examiner Zanna, Argini
------------------------------	--	---------------------------

### CATEGORY OF CITED DOCUMENTS

X: particularly relevant if taken alone	P: intermediate document
Y: particularly relevant if combined with another document of the same category	T: theory or principle underlying the invention
A: technological background	E: earlier patent document, but published on, or after the filing date
O: non-written disclosure	D: document cited in the application
& : member of the same patent family, corresponding document	L: document cited for other reasons

Disclaimer: this document has been automatically generated using data structured in accordance with WIPO standard ST.36 from the database of search reports of the European Patent Office. For technical reasons, its content and layout may differ from that of the original publication. Only the original published information is legally binding.



## ANNEX TO SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:  
EP 17 82 47 22

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on 17-12-2019  
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 3023975	A1	25-05-2016	CN 105610235 A	25-05-2016
			EP 3023975 A1	25-05-2016
			KR 20160059258 A	26-05-2016
			US 2016140911 A1	19-05-2016
KR 20130003384	A	09-01-2013	NONE	
GB 2232520	A	12-12-1990	NONE	